

INTERNATIONAL SEARCH REPORT

PCT/GB 03/04472

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01S3/067 H01S3/094

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ALLAIN J Y ET AL: "Tunable green upconversion erbium fibre laser" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 28, no. 2, 16 January 1992 (1992-01-16), pages 111-113, XP002242570 ISSN: 0013-5194 the whole document</p> <p style="text-align: center;">----- -/--</p>	1-10, 37-46

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

21 July 2004

Date of mailing of the international search report

02/08/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>QUIMBY R S ET AL: "Excited state absorption at 980 nm in erbium doped glass"</p> <p>PROC. SPIE - INT. SOC. OPT. ENG. (USA), PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 1992, USA, vol. 1581, 6 September 1991 (1991-09-06), pages 72-79, XP008033124</p> <p>ISSN: 0277-786X</p> <p>page 74, line 5; figure 5</p>	1-10, 37-46
A	<p>WHITLEY T J ET AL: "UPCONVERSION PUMPED GREEN LASING IN ERBIUM DOPED FLUOROZIRCONATE FIBRE"</p> <p>ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 27, no. 20, 26 September 1991 (1991-09-26), pages 1785-1786, XP000253627</p> <p>ISSN: 0013-5194</p> <p>the whole document</p>	1,10,37
A	<p>US 5 453 873 A (WHITLEY TIMOTHY J ET AL)</p> <p>26 September 1995 (1995-09-26)</p> <p>the whole document</p>	1,10,37
A	<p>PIEHLER D ET AL: "11.7 mW green InGaAs-laser-pumped erbium fibre laser"</p> <p>ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 30, no. 21, 13 October 1994 (1994-10-13), pages 1759-1761, XP006001176</p> <p>ISSN: 0013-5194</p> <p>the whole document</p>	1,10,37
A	<p>ZEMON S ET AL: "EXCITED-STATE ABSORPTION CROSS SECTIONS IN THE 800-NM BAND FOR ER-DOPED, AL/P-SILICA FIBERS: MEASUREMENTS AND AMPLIFIER MODELING"</p> <p>IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE INC. NEW YORK, US, vol. 3, no. 7, 1 July 1991 (1991-07-01), pages 621-624, XP000218325</p> <p>ISSN: 1041-1135</p> <p>figure 1</p>	1,10,37
A	<p>ZEMON S ET AL: "Excited state cross sections for Er-doped glasses"</p> <p>PROC. SPIE - INT. SOC. OPT. ENG. (USA), PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 1991, USA, vol. 1373, 19 September 1990 (1990-09-19), pages 21-32, XP008033134</p> <p>ISSN: 0277-786X</p> <p>the whole document</p>	1,10,37

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB 03/04472

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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			AT	193402 T		15-06~2000
			DE	69231094 D1		29-06~2000
			DE	69231094 T2		01-02~2001
			EP	0593568 A1		27-04~1994
			WO	9301637 A1		21-01~1993
			GB	2272794 A ,B		25-05~1994
			HK	141296 A		09-08~1996
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